



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 01st Dec 2020

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द.क्षे.भा.प्रे.के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 30.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-नवंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उपलब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 30th November 2020, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 01-Dec-2020

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	44776	50796	37594	16941	2421	152528
Peak Shortage (MW)	0	0	0	0	54	54
Energy Met (MU)	902	1215	802	344	41	3304
Hydro Gen (MU)	106	47	71	43	13	281
Wind Gen (MU)	3	36	44	-	-	83
Solar Gen (MU)*	35.27	32.86	81.17	4.42	0.13	154
Energy Shortage (MU)	0.20	0.00	0.00	0.00	0.54	0.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47363	57723	38925	17833	2543	158783
Time Of Maximum Demand Met (From NLDC SCADA)	09:47	10:32	09:25	17:48	17:26	10:31

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.024	0.00	0.00	2.75	2.75	83.63	13.61

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	5788	0	117.5	67.4	-1.5	67	0.00
	Haryana	6354	0	123.5	110.2	1.2	234	0.00
	Rajasthan	12800	0	235.9	79.8	2.0	613	0.00
	Delhi	3368	0	60.0	42.8	0.0	317	0.00
	UP	14097	0	246.2	90.4	-2.4	317	0.00
	Uttarakhand	1900	0	35.6	26.2	0.8	197	0.20
	HP	1591	0	28.6	21.7	-0.4	132	0.00
	J&K(UT) & Ladakh(UT)	2658	0	52.2	45.6	1.6	289	0.00
WR	Chandigarh	181	0	3.0	3.0	0.0	17	0.00
	Chhattisgarh	3473	0	74.1	20.1	0.3	308	0.00
	Gujarat	16034	0	343.9	79.3	3.4	697	0.00
	MP	14354	0	278.2	168.0	-3.2	566	0.00
	Maharashtra	22903	0	465.6	147.7	0.7	1008	0.00
	Goa	500	0	10.0	9.6	0.1	65	0.00
	DD	336	0	7.3	6.9	0.4	39	0.00
	DNH	802	0	18.4	17.8	0.6	66	0.00
SR	AMNSIL	780	0	17.5	2.5	0.2	240	0.00
	Andhra Pradesh	6914	0	135.6	62.5	-0.5	515	0.00
	Telangana	7217	0	143.4	53.4	0.1	335	0.00
	Karnataka	10045	0	187.6	62.8	-0.9	698	0.00
	Kerala	3672	0	73.4	54.2	0.3	165	0.00
	Tamil Nadu	12784	0	255.1	164.4	-1.9	453	0.00
	Puducherry	340	0	6.8	7.2	-0.5	14	0.00
	ER	Bihar	4300	0	73.9	73.0	-0.3	319
DVC		3025	0	65.8	45.1	-1.0	418	0.00
Jharkhand		1384	0	25.3	18.2	-1.1	160	0.00
Odisha		3741	0	68.3	2.0	-0.7	338	0.00
West Bengal		6107	0	109.5	17.0	0.3	422	0.00
Sikkim		100	0	1.6	1.7	-0.1	35	0.00
NER	Arunachal Pradesh	119	1	2.1	2.1	0.0	48	0.01
	Assam	1425	19	22.9	19.4	0.2	113	0.50
	Manipur	224	1	2.7	2.9	-0.3	38	0.01
	Meghalaya	334	0	5.7	3.1	-0.1	40	0.00
	Mizoram	113	1	1.6	1.3	0.0	28	0.01
	Nagaland	137	1	2.1	1.8	0.2	33	0.01
	Tripura	226	1	3.5	2.8	-0.4	54	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.4	-5.1	-11.8
Day Peak (MW)	530.0	-384.6	-515.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	274.6	-264.2	112.5	-122.3	-0.5	0.0
Actual(MU)	264.4	-247.3	101.6	-127.7	0.0	-9.1
O/D/U/D(MU)	-10.2	16.9	-10.9	-5.5	0.5	-9.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7870	15003	10822	3100	659	37453
State Sector	14866	14910	13197	4382	11	47365
Total	22736	29912	24019	7482	670	84819

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	417	1271	381	442	7	2517
Lignite	24	11	24	0	0	59
Hvdro	106	47	71	44	13	282
Nuclear	28	33	64	0	0	125
Gas, Naptha & Diesel	22	55	13	0	25	115
RES (Wind, Solar, Biomass & Others)	59	70	159	4	0	292
Total	656	1486	712	490	45	3389
Share of RES in total generation (%)	8.95	4.68	22.29	0.91	0.29	8.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.44	10.08	41.26	9.79	29.59	20.60

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.071

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 01-Dec-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	1097	0.0	12.6	-12.6
4	765 kV	SASARAM-FATEHPUR	1	2	403	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	538	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	217	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	145	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1065	0.0	12.4	-12.4
9	400 kV	PATNA-BALIA	4	0	1188	0.0	14.7	-14.7
10	400 kV	BIHARSHARIFE-BALIA	2	0	599	0.0	6.7	-6.7
11	400 kV	MOTIHARIGORAKHPUR	2	0	362	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFE-VARANASI	2	0	340	0.0	2.4	-2.4
13	220 kV	PUSAULI-SAHUPURI	1	39	57	0.0	0.0	0.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	80.4	-80.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	264	464	0.0	5.3	-5.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	678	257	5.1	0.0	5.1
3	765 kV	JHARSUGUDA-DURG	2	0	518	0.0	6.0	-6.0
4	400 kV	JHARSUGUDA-RAIGARH	4	242	338	0.0	1.0	-1.0
5	400 kV	RANCHI-SIPAT	2	163	124	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	54	73	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	147	19	1.5	0.0	1.5
						ER-WR	14.2	-7.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	533	0.0	12.0	-12.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2475	0.0	42.2	-42.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2188	0.0	36.5	-36.5
4	400 kV	TALCHER-I/C	2	377	1147	0.0	10.6	-10.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	90.6	-90.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	326	0	4.3	0.0	4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	481	0	6.4	0.0	6.4
3	220 kV	ALIPURDUAR-SALAKATI	2	73	10	0.9	0.0	0.9
						ER-NER	11.5	0.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.7	0.0	11.7
						NER-NR	11.7	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1501	0.0	40.9	-40.9
2	HVDC	VINDHYACHAL B/B	-	194	0	3.8	0.0	3.8
3	HVDC	MUNDRA-MOHENDERGARH	2	0	1925	0.0	41.4	-41.4
4	765 kV	GWALIOR-AGRA	2	0	2703	0.0	49.3	-49.3
5	765 kV	PHAGL-GWALIOR	2	0	1921	0.0	26.5	-26.5
6	765 kV	JABALPUR-ORAI	2	0	1024	0.0	35.1	-35.1
7	765 kV	GWALIOR-ORAI	1	775	0	11.5	0.0	11.5
8	765 kV	SATNA-ORAI	1	0	1483	0.0	29.1	-29.1
9	765 kV	CHITORGARH-BANASKANTHA	2	47	829	0.0	9.2	-9.2
10	400 kV	ZERDA-KANKROLI	1	42	143	0.0	0.8	-0.8
11	400 kV	ZERDA -BHINMAL	1	0	434	0.0	4.4	-4.4
12	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.5	0.0	22.5
13	400 kV	RAPP-SIHUAIPUR	2	16	484	0.0	4.0	-4.0
14	220 kV	BHANPURA-RANPUR	1	0	165	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	0.9	-0.9
16	220 kV	MEHGAON-AURAIYA	1	91	0	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	55	24	0.7	0.0	0.7
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
						WR-NR	38.7	-205.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	907	0.0	10.7	-10.7
2	HVDC	RAIGARH-PUGAULI	2	0	1490	0.0	10.7	-10.7
3	765 kV	SOLAPUR-RAICHUR	2	737	1664	0.0	14.0	-14.0
4	765 kV	WARDHA-NIZAMABAD	2	322	1667	0.0	19.3	-19.3
5	400 kV	KOLHAPUR-KUDGI	2	592	0	7.7	0.0	7.7
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0
8	220 kV	XELDAM-AMBEWADI	1	0	43	0.8	0.0	0.8
						WR-SR	8.5	-46.3

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	173	0	159	3.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	254	0	223	5.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	77	0	50	1.2
	NER	132KV-GEYLEGPHU - SALAKATI	18	0	8	0.2
	NER	132kV Motanga-Rangis	8	2	-3	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-59	0	-45	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-171	9	-58	-1.4
	ER	132KV-BIHAR - NEPAL	-155	-1	-110	-2.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-405	-401	-402	-9.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-45	-1.1